Xiangfeng Liu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2219102/publications.pdf

Version: 2024-02-01

134 papers	7,000 citations	41344 49 h-index	66911 78 g-index
135 all docs	135 docs citations	135 times ranked	8063 citing authors

#	Article	IF	Citations
1	Facile Shape Control of Co₃O₄ and the Effect of the Crystal Plane on Electrochemical Performance. Advanced Materials, 2012, 24, 5762-5766.	21.0	378
2	Boosting the Electrocatalytic Activity of Co₃O₄ Nanosheets for a Li-O₂ Battery through Modulating Inner Oxygen Vacancy and Exterior Co³⁺/Co²⁺ Ratio. ACS Catalysis, 2017, 7, 6533-6541.	11.2	238
3	Carbon-Dotted Defective CoO with Oxygen Vacancies: A Synergetic Design of Bifunctional Cathode Catalyst for Liâ€“O₂ Batteries. ACS Catalysis, 2016, 6, 400-406.	11.2	194
4	Polyoxometalate-Based Radiosensitization Platform for Treating Hypoxic Tumors by Attenuating Radioresistance and Enhancing Radiation Response. ACS Nano, 2017, 11, 7164-7176.	14.6	168
5	Microwave assisted one-pot synthesis of graphene quantum dots as highly sensitive fluorescent probes for detection of iron ions and pH value. Talanta, 2016, 150, 54-60.	5.5	167
6	The role of oxygen vacancies in improving the performance of CoO as a bifunctional cathode catalyst for rechargeable Liâ€“O₂ batteries. Journal of Materials Chemistry A, 2015, 3, 17598-17605.	10.3	155
7	Systematic Pore-Size Effects of Nanoconfinement of LiBH₄: Elimination of Diborane Release and Tunable Behavior for Hydrogen Storage Applications. Chemistry of Materials, 2011, 23, 1331-1336.	6.7	139
8	Intelligent MoS₂ Nanotheranostic for Targeted and Enzyme-/pH-/NIR-Responsive Drug Delivery To Overcome Cancer Chemotherapy Resistance Guided by PET Imaging. ACS Applied Materials & Interfaces, 2018, 10, 4271-4284.	8.0	137
9	Controlling the Decomposition Pathway of LiBH₄ via Confinement in Highly Ordered Nanoporous Carbon. Journal of Physical Chemistry C, 2010, 114, 14036-14041.	3.1	123
10	Boron-doped sodium layered oxide for reversible oxygen redox reaction in Na-ion battery cathodes. Nature Communications, 2021, 12, 5267.	12.8	122
11	Microwave-assisted facile synthesis of yellow fluorescent carbon dots from o-phenylenediamine for cell imaging and sensitive detection of Fe³⁺ and H₂O₂. RSC Advances, 2016, 6, 17704-17712.	3.6	121
12	Tuning Anionic Redox Activity and Reversibility for a Highâ€Capacity Liâ€Rich Mnâ€Based Oxide Cathode via an Integrated Strategy. Advanced Functional Materials, 2019, 29, 1806706.	14.9	121
13	Unveiling the Role of Co in Improving the High-Rate Capability and Cycling Performance of Layered Na_{0.7}Mn_{0.7}Ni_{0.3â€“x}Co_xO₂ Cathode Materials for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 15439-15448.	8.0	116
14	New Insights into the Roles of Mg in Improving the Rate Capability and Cycling Stability of O3-NaMn_{0.48}Ni_{0.2}Fe_{0.3}Mg_{0.02}O₂ for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 10819-10827.	8.0	113
15	Ion conducting Li₂SiO₃-coated lithium-rich layered oxide exhibiting high rate capability and low polarization. Chemical Communications, 2015, 51, 9093-9096.	4.1	111
16	Enhancing the Catalytic Activity of Co₃O₄ for Liâ€“O₂ Batteries through the Synergy of Surface/Interface/Doping Engineering. ACS Catalysis, 2018, 8, 1955-1963.	11.2	111
17	Suppressing the Structure Deterioration of Ni-Rich LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ through Atom-Scale Interfacial Integration of Self-Forming Hierarchical Spinel Layer with Ni Gradient Concentration. ACS Applied Materials & Interfaces, 2017, 9, 29794-29803.	8.0	104
18	A Heterojunction Structured WO_{2.9}-WSe₂ Nanoradiosensitizer Increases Local Tumor Ablation and Checkpoint Blockade Immunotherapy upon Low Radiation Dose. ACS Nano, 2020, 14, 5400-5416.	14.6	104

#	Article	IF	Citations
19	New insights into designing high-rate performance cathode materials for sodium ion batteries by enlarging the slab-spacing of the Na-ion diffusion layer. Journal of Materials Chemistry A, 2016, 4, 3453-3461.	10.3	101
20	The effect of oxygen vacancy and spinel phase integration on both anionic and cationic redox in Li-rich cathode materials. Journal of Materials Chemistry A, 2020, 8, 7733-7745.	10.3	101
21	Designing an advanced P2-Na_{0.67}Mn_{0.65}Ni_{0.2}Co_{0.15}O₂ layered cathode material for Na-ion batteries. Journal of Materials Chemistry A, 2015, 3, 16272-16278.	10.3	100
22	Improving the electrochemical performances of Li-rich Li1.20Ni0.13Co0.13Mn0.54O2 through a cooperative doping of Na+ and PO43â˜ with Na3PO4. Journal of Power Sources, 2018, 375, 1-10.	7.8	100
23	Facet-Dependent Electrocatalytic Performance of Co₃O₄ for Rechargeable Liâ€“O₂ Battery. Journal of Physical Chemistry C, 2015, 119, 4516-4523.	3.1	99
24	CoO/CoP Heterostructured Nanosheets with an Oâ€“P Interpenetrated Interface as a Bifunctional Electrocatalyst for Naâ€“O₂ Battery. ACS Catalysis, 2018, 8, 8953-8960.	11.2	98
25	Facile Cycling of Ti-Doped LiAlH₄ for High Performance Hydrogen Storage. Journal of the American Chemical Society, 2009, 131, 5032-5033.	13.7	96
26	High Rate Capability and Excellent Thermal Stability of Li⁺-Conductive Li₂ZrO₃-Coated LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ via a Synchronous Lithiation Strategy. Journal of Physical Chemistry C, 2015, 119, 20350-20356.	3.1	94
27	Tailoring Co3d and O2p Band Centers to Inhibit Oxygen Escape for Stable 4.6â€…V LiCoO₂ Cathodes. Angewandte Chemie - International Edition, 2021, 60, 27102-27112.	13.8	89
28	Facile synthesis and enhanced electrochemical performances of Li2TiO3-coated lithium-rich layered Li1.13Ni0.30Mn0.57O2 cathode materials for lithium-ion batteries. Journal of Power Sources, 2015, 294, 141-149.	7.8	88
29	Li-Substituted Co-Free Layered P2/O3 Biphasic Na_{0.67}Mn_{0.55}Ni_{0.25}Ti_{0.2â€“x}Li_xO₂ as High-Rate-Capability Cathode Materials for Sodium Ion Batteries. Journal of Physical Chemistry C, 2016, 120, 9007-9016.	3.1	87
30	Multifunctional WS₂@Poly(ethylene imine) Nanoplatforms for Imaging Guided Geneâ€Photothermal Synergistic Therapy of Cancer. Advanced Healthcare Materials, 2016, 5, 2776-2787.	7.6	86
31	Unraveling the multiple effects of Li 2 ZrO 3 coating on the structural and electrochemical performances of LiCoO 2 as high-voltage cathode materials. Electrochimica Acta, 2016, 209, 102-110.	5.2	85
32	Zr-doped P2-Na0.75Mn0.55Ni0.25Co0.05Fe0.10Zr0.05O2 as high-rate performance cathode material for sodium ion batteries. Electrochimica Acta, 2017, 223, 92-99.	5.2	83
33	Addressing voltage decay in Li-rich cathodes by broadening the gap between metallic and anionic bands. Nature Communications, 2021, 12, 3071.	12.8	81
34	Improving the oxygen redox reversibility of Li-rich battery cathode materials via Coulombic repulsive interactions strategy. Nature Communications, 2022, 13, 1123.	12.8	81
35	Different Effects of Al Substitution for Mn or Fe on the Structure and Electrochemical Properties of Na_{0.67}Mn_{0.5}Fe_{0.5}O₂ as a Sodium Ion Battery Cathode Material. Inorganic Chemistry, 2018, 57, 5249-5257.	4.0	78
36	Understanding the Multiple Effects of TiO₂ Coating on NaMn_{0.33}Fe_{0.33}Ni_{0.33}O₂ Cathode Material for Na-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 933-942.	5.1	78

#	Article	IF	Citations
37	Ti-Doped LiAlH₄ for Hydrogen Storage: Synthesis, Catalyst Loading and Cycling Performance. Journal of the American Chemical Society, 2011, 133, 15593-15597.	13.7	77
38	Ultrathin Co₃O₄ Nanosheets with Edge-Enriched {111} Planes as Efficient Catalysts for Lithiumâ€“Oxygen Batteries. ACS Catalysis, 2019, 9, 3773-3782.	11.2	76
39	Simultaneously tuning cationic and anionic redox in a P2-Na_{0.67}Mn_{0.75}Ni_{0.25}O₂ cathode material through synergic Cu/Mg co-doping. Journal of Materials Chemistry A, 2019, 7, 9099-9109.	10.3	76
40	An amorphous LiO2-based Li-O2 battery with low overpotential and high rate capability. Nano Energy, 2017, 41, 535-542.	16.0	71
41	LiCoO2 nanoplates with exposed (001) planes and high rate capability for lithium-ion batteries. Nano Research, 2012, 5, 395-401.	10.4	69
42	New insights into the modification mechanism of Li-rich Li_{1.2}Mn_{0.6}Ni_{0.2}O₂ coated by Li₂ZrO₃. Physical Chemistry Chemical Physics, 2016, 18, 13322-13331.	2.8	69
43	Revealing the anionic redox chemistry in O3-type layered oxide cathode for sodium-ion batteries. Energy Storage Materials, 2021, 38, 130-140.	18.0	65
44	Revealing Hidden Facts of Li Anode in Cycled Lithiumâ€“Oxygen Batteries through X-ray and Neutron Tomography. ACS Energy Letters, 2019, 4, 306-316.	17.4	61
45	Silica-coated bismuth sulfide nanorods as multimodal contrast agents for a non-invasive visualization of the gastrointestinal tract. Nanoscale, 2015, 7, 12581-12591.	5.6	60
46	Improving the cycling and air-storage stability of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ through integrated surface/interface/doping engineering. Journal of Materials Chemistry A, 2020, 8, 5234-5245.	10.3	56
47	Controlled synthesis and enhanced electrochemical performance of Prussian blue analogue-derived hollow FeCo₂O₄ nanospheres as lithium-ion battery anodes. RSC Advances, 2015, 5, 36575-36581.	3.6	55
48	Modification of the H₂ Desorption Properties of LiAlH₄ through Doping with Ti. Journal of Physical Chemistry C, 2010, 114, 10666-10669.	3.1	54
49	O3-type NaNi0.5Mn0.5O2 hollow microbars with exposed {0â€¯1â€¯0} facets as high performance cathode materials for sodium-ion batteries. Chemical Engineering Journal, 2020, 382, 122978.	12.7	54
50	Understanding the Enhancement Mechanism of A-Site-Deficient La_xNiO₃ as an Oxygen Redox Catalyst. Chemistry of Materials, 2020, 32, 1864-1875.	6.7	54
51	Six-arm star polymer based on discotic liquid crystal as high performance all-solid-state polymer electrolyte for lithium-ion batteries. Journal of Power Sources, 2018, 395, 137-147.	7.8	50
52	The synergic effects of Na and K co-doping on the crystal structure and electrochemical properties of Li4Ti5O12 as anode material for lithium ion battery. Solid State Sciences, 2015, 44, 39-44.	3.2	49
53	Dynamical Perturbations of Tetrahydroborate Anions in LiBH₄ due to Nanoconfinement in Controlled-Pore Carbon Scaffolds. Journal of Physical Chemistry C, 2013, 117, 17983-17995.	3.1	47
54	Enhancing the Catalytic Activity of Co₃O₄ Nanosheets for Li-O₂ Batteries by the Incoporation of Oxygen Vacancy with Hydrazine Hydrate Reduction. Inorganic Chemistry, 2019, 58, 4989-4996.	4.0	45

#	Article	IF	Citations
55	Simultaneously enhancing up-conversion fluorescence and red-shifting down-conversion luminescence of carbon dots by a simple hydrothermal process. Journal of Materials Chemistry B, 2014, 2, 6947-6952.	5.8	44
56	Understanding the synergic roles of MgO coating on the cycling and rate performance of Na0.67Mn0.5Fe0.5O2 cathode. Applied Surface Science, 2019, 497, 143814.	6.1	43
57	Probing the unusual anion mobility of LiBH4 confined in highly ordered nanoporous carbon frameworks via solid state NMR and quasielastic neutron scattering. Journal of Materials Chemistry A, 2013, 1, 9935.	10.3	42
58	The synthesis of a hyperbranched star polymeric ionic liquid and its application in a polymer electrolyte. Polymer Chemistry, 2017, 8, 3177-3185.	3.9	42
59	Facile and efficient exfoliation of inorganic layered materials using liquid alkali metal alloys. Chemical Communications, 2015, 51, 10961-10964.	4.1	40
60	Silver-Nanoparticle-Embedded Porous Silicon Disks Enabled SERS Signal Amplification for Selective Glutathione Detection. ACS Applied Nano Materials, 2018, 1, 410-417.	5.0	39
61	Understanding the effect of an in situ generated and integrated spinel phase on a layered Li-rich cathode material using a non-stoichiometric strategy. Physical Chemistry Chemical Physics, 2016, 18, 25711-25720.	2.8	38
62	Mitigating the voltage fading and lattice cell variations of O3-NaNi0.2Fe0.35Mn0.45O2 for high performance Na-ion battery cathode by Zn doping. Journal of Alloys and Compounds, 2019, 794, 509-517.	5.5	36
63	Enhancing the electrochemical properties of NiFe2O4 anode for lithium ion battery through a simple hydrogenation modification. International Journal of Hydrogen Energy, 2014, 39, 11258-11266.	7.1	35
64	Improving the Performance of Layered Oxide Cathode Materials with Footballâ€Like Hierarchical Structure for Naâ€Ion Batteries by Incorporating Mg²⁺ into Vacancies in Naâ€Ion Layers. ChemSusChem, 2018, 11, 1223-1231.	6.8	35
65	Modulating the Electrochemical Performances of Layered Cathode Materials for Sodium Ion Batteries through Tuning Coulombic Repulsion between Negatively Charged TMO₂ Slabs. ACS Applied Materials & Interfaces, 2018, 10, 1707-1718.	8.0	34
66	Designing advanced P3-type K0.45Ni0.1Co0.1Mn0.8O2 and improving electrochemical performance via Al/Mg doping as a new cathode Material for potassium-ion batteries. Journal of Power Sources, 2020, 464, 228190.	7.8	34
67	Simple and Efficient Synthesis of Strongly Green Fluorescent Carbon Dots with Upconversion Property for Direct Cell Imaging. Particle and Particle Systems Characterization, 2015, 32, 542-546.	2.3	33
68	Bi₂S₃â€“Tween 20 Nanodots Loading PI3K Inhibitor, LY294002, for Mild Photothermal Therapy of LoVo Cells In Vitro and In Vivo. Advanced Healthcare Materials, 2018, 7, e1800830.	7.6	32
69	Oxygen defects-engineered LaFeO3-x nanosheets as efficient electrocatalysts for lithium-oxygen battery. Journal of Catalysis, 2020, 384, 199-207.	6.2	32
70	A study of the structureâ€“activity relationship of the electrochemical performance and Li/Ni mixing of lithium-rich materials by neutron diffraction. RSC Advances, 2015, 5, 31238-31244.	3.6	31
71	Reducing the charge overpotential of Liâ€“O₂ batteries through band-alignment cathode design. Energy and Environmental Science, 2020, 13, 2540-2548.	30.8	30
72	Structure modulation and performance optimization of P2-Na0.7Mn0.75Fe0.25-x-yNixCoyO2 through a synergistic substitution ofÂNi and Co for Fe. Electrochimica Acta, 2018, 277, 88-99.	5.2	29

#	Article	IF	Citations
73	Understanding Oxygen Redox in Cu-Doped P2-Na_{0.67}Mn_{0.8}Fe_{0.1}Co_{0.1}O₂ Cathode Materials for Na-Ion Batteries. Journal of the Electrochemical Society, 2018, 165, A3854-A3861.	2.9	28
74	Enhancing the Rate Capability and Cycling Stability of Na_{0.67}Mn_{0.7}Fe_{0.2}Co_{0.1}O₂ through a Synergy of Zr⁴⁺ Doping and ZrO₂ Coating. Journal of Physical Chemistry C, 2018, 122, 25909-25916.	3.1	28
75	Tuning Co²⁺ Coordination in Cobalt Layered Double Hydroxide Nanosheets via Fe³⁺ Doping for Efficient Oxygen Evolution. Inorganic Chemistry, 2021, 60, 5252-5263.	4.0	28
76	Probing the Selfâ€Boosting Catalysis of LiCoO₂ in Liâ€“O₂ Battery with Multiple In Situ/Operando Techniques. Advanced Functional Materials, 2020, 30, 2002223.	14.9	28
77	3D structural lithium alginate-based gel polymer electrolytes with superior high-rate long cycling performance for high-energy lithium metal batteries. Journal of Materials Chemistry A, 2022, 10, 707-718.	10.3	28
78	Facilitating Reversible Cation Migration and Suppressing O₂ Escape for High Performance Liâ€Rich Oxide Cathodes. Small, 2022, 18, e2201014.	10.0	28
79	Decomposition Behavior of Eutectic LiBH₄â€“Mg(BH₄)₂ and Its Confinement Effects in Ordered Nanoporous Carbon. Journal of Physical Chemistry C, 2014, 118, 27265-27271.	3.1	27
80	Valine-derived carbon dots with colour-tunable fluorescence for the detection of Hg2+ with high sensitivity and selectivity. New Journal of Chemistry, 2015, 39, 6201-6206.	2.8	27
81	Tuning Both Anionic and Cationic Redox Chemistry of Li-Rich Li_{1.2}Mn_{0.6}Ni_{0.2}O₂ via a â€œThree-in-Oneâ€•Strategy. Chemistry of Materials, 2020, 32, 9404-9414.	6.7	27
82	Ti-doped LiAlH4 for hydrogen storage: Rehydrogenation process, reaction conditions and microstructure evolution during cycling. International Journal of Hydrogen Energy, 2012, 37, 10215-10221.	7.1	23
83	Characterization of the Dehydrogenation Process of LiBH₄ Confined in Nanoporous Carbon. Journal of Physical Chemistry C, 2014, 118, 8843-8851.	3.1	23
84	Mitigating the P2â€“O2 transition and Na⁺/vacancy ordering in Na_{2/3}Ni_{1/3}Mn_{2/3}O₂ by anion/cation dual-doping for fast and stable Na⁺ insertion/extraction. Journal of Materials Chemistry A, 2021, 9, 10803-10811.	10.3	23
85	é€šè¿‡ä¸€ç§åå•Œç–ç•¥è°ƒèŠ‚P2åž‹Na0.67Mn0.5Fe0.5O2æ£æžææ–™çš„é˜´/é˜³ç¦»åæ°§åŒ–è¿˜åŽŸå®º”. Science China Materials, 2020,	6.3	23
86	Topological polymer electrolyte containing poly(pinacol vinylboronate) segments composited with ceramic nanowires towards ambient-temperature superior performance all-solid-state lithium batteries. Journal of Power Sources, 2019, 413, 318-326.	7.8	22
87	First-Principles Study of Novel Conversion Reactions for High-Capacity Li-Ion Battery Anodes in the Liâ€“Mgâ€“Bâ€“Nâ€“H System. Journal of Physical Chemistry C, 2011, 115, 16681-16687.	3.1	21
88	N-Doped Defective Carbon Layer Encapsulated W2C as a Multifunctional Cathode Catalyst for High Performance Li-O2 Battery. Electrochimica Acta, 2017, 245, 430-437.	5.2	21
89	A collaborative strategy with ionic conductive Na2SiO3 coating and Si doping of P2-Na0.67Fe0.5Mn0.5O2 cathode: An effective solution to capacity attenuation. Electrochimica Acta, 2021, 384, 138362.	5.2	21
90	Tuning the crystal and electronic structure of Li4Ti5O12 via Mg/La Co-doping for fast and stable lithium storage. Ceramics International, 2020, 46, 12965-12974.	4.8	20

#	Article	IF	Citations
91	A ketone-containing all-solid-state polymer electrolyte with rapid Li-ion conduction for lithium metal batteries. Chemical Engineering Journal, 2022, 427, 132025.	12.7	20
92	Tailoring Co3d and O2p Band Centers to Inhibit Oxygen Escape for Stable 4.6â€…V LiCoO₂ Cathodes. Angewandte Chemie, 2021, 133, 27308-27318.	2.0	20
93	The Synergic Effects of Zr Doping and Li₂TiO₃ Coating on the Crystal Structure and Electrochemical Performances of Li-Rich Li_{1.2}Ni_{0.2}Mn_{0.6}O₂. Journal of the Electrochemical Society, 2019, 166, A1323-A1329.	2.9	19
94	Stabilizing the Anionic Redox in 4.6 VÂLiCoO₂ Cathode through Adjusting Oxygen Magnetic Moment. Advanced Functional Materials, 2022, 32, .	14.9	19
95	Probing the Nature of Li⁺/Ni²⁺ Disorder on the Structure and Electrochemical Performance in Ni-Based Layered Oxide Cathodes. Journal of the Electrochemical Society, 2019, 166, A4097-A4105.	2.9	18
96	Fe3O4@porous carbon hybrid as the anode material for a lithium-ion battery: performance optimization by composition and microstructure tailoring. New Journal of Chemistry, 2015, 39, 3435-3443.	2.8	17
97	Lattice Modulation by Ca/P Dual-Doping for Fast and Stable Li⁺ Intercalation/Extraction in High-Voltage LiCoO₂. Journal of Physical Chemistry C, 2021, 125, 2364-2372.	3.1	17
98	Tuning fermi level and band gap in Li₄Ti₅O₁₂ by doping and vacancy for ultrafast Li⁺ insertion/extraction. Journal of the American Ceramic Society, 2021, 104, 5934-5945.	3.8	17
99	Improving the Electrochemical Performance of Li₄Ti₅O₁₂Anode through Confinement into Ordered Bimodal Porous Carbon Frameworks. Journal of Physical Chemistry C, 2013, 117, 26889-26895.	3.1	16
100	Tailoring the hydrogen storage properties of Li4BN3H10 by confinement into highly ordered nanoporous carbon. Journal of Materials Chemistry A, 2013, 1, 3926.	10.3	16
101	Enhancing the Performance of CoO as Cathode Catalyst for Li-O2 Batteries through Confinement into Bimodal Mesoporous Carbon. Electrochimica Acta, 2016, 201, 134-141.	5.2	16
102	Electrochemical performances of a new solid composite polymer electrolyte based on hyperbranched star polymer and ionic liquid for lithium-ion batteries. Journal of Solid State Electrochemistry, 2017, 21, 2355-2364.	2.5	16
103	Unveiling the Synergic Roles of Mg/Zr Co-Doping on Rate Capability and Cycling Stability of Li₄Ti₅O₁₂. Journal of the Electrochemical Society, 2019, 166, A658-A666.	2.9	16
104	Tuning Bulk O₂ and Nonbonding Oxygen State for Reversible Anionic Redox Chemistry in P2â€Layered Cathodes. Angewandte Chemie - International Edition, 2022, 61, .	13.8	16
105	Hydrogenation of C14 Laves phase alloy: CaLi2. International Journal of Hydrogen Energy, 2009, 34, 1472-1475.	7.1	15
106	The effects of Co doping on the crystal structure and electrochemical performance of Mg(Mn2Ââ^'ÂxCox)O4 negative materials for lithium ion battery. Solid State Sciences, 2015, 39, 23-28.	3.2	15
107	Ultrahigh cycling stability and rate capability of ZnFe₂O₄@graphene hybrid anode prepared through a facile syn-graphenization strategy. New Journal of Chemistry, 2016, 40, 3139-3146.	2.8	15
108	The formation mechanism and photocatalytic activity of hierarchical NiAlâ€“LDH films on an Al substrate prepared under acidic conditions. Chemical Communications, 2014, 50, 2301-2303.	4.1	14

#	Article	IF	Citations
109	Three-dimensional layered double hydroxide membranes: fabrication technique, growth mechanism, and enhanced photocatalytic activity. Chemical Communications, 2018, 54, 8494-8497.	4.1	13
110	Unraveling the Distinct Roles of Mg Occupation on Li or Co Sites on High-Voltage LiCoO₂. Journal of the Electrochemical Society, 2021, 168, 030528.	2.9	13
111	Study of the structures and thermal expansion properties of solid solutions Yb2â^'xDyxW3O12 (0â‰¤xâ‰¤1.5) Tj ETQq1 1 0.784314 rgB	2.7	12
112	Facile synthesis of carbon-coated LiVO3 with enhanced electrochemical performances as cathode materials for lithium-ion batteries. Ceramics International, 2017, 43, 2343-2349.	4.8	12
113	Water-Induced Surface Reconstruction of Co₃O₄ on the (111) Plane for High-Efficiency Liâ€“O₂ Batteries in a Hybrid Electrolyte. ACS Applied Materials & Interfaces, 2022, 14, 28965-28976.	8.0	12
114	Hydrogenation of CaLi2â^'xMgx (0â‰¤xâ‰¤2) with C14 Laves phase structure. Journal of Alloys and Compounds, 2009, 482, L18-L21.	5.5	10
115	Neutron diffraction analysis and electrochemical performance of spinel Ni(Mn2â^'Co)O4 as anode materials for lithium ion battery. Materials Research Bulletin, 2016, 77, 265-270.	5.2	10
116	Understanding the roles of Ti on the structure and electrochemical performances of Li2Ru1-Ti O3 cathode materials for Li-ion batteries. Journal of Energy Chemistry, 2019, 33, 9-16.	12.9	9
117	Ap-phenylenediamine oligomer-mediated Liâ€“O₂battery with an extremely low charge potential of 3.1 V. Journal of Materials Chemistry A, 2020, 8, 22754-22762.	10.3	9
118	Lithiumâ€Ion Batteries: Tuning Anionic Redox Activity and Reversibility for a Highâ€Capacity Liâ€Rich Mnâ€Based Oxide Cathode via an Integrated Strategy (Adv. Funct. Mater. 10/2019). Advanced Functional Materials, 2019, 29, 1970064.	14.9	7
119	The synergic effects of Ca and Sm co-doping on the crystal structure and electrochemical performances of Li4-xCaxTi5-xSmxO12 anode material. Solid State Sciences, 2019, 87, 110-117.	3.2	7
120	Improving Cycling Stability and Rate Capability of High-Voltage LiCoO₂ Through an Integration of Lattice Doping and Nanoscale Coating. Journal of Nanoscience and Nanotechnology, 2020, 20, 2473-2481.	0.9	7
121	Direct synthesis of CdS nanodots embedded in bovine serum albumin without external sulfur source for cell imaging. RSC Advances, 2015, 5, 10014-10017.	3.6	6
122	Simultaneously Enhancing Structural Stability and Cationic Redox in Na_{0.67}Mn_{0.75}Fe_{0.25}O₂ through a Synergy of Multisite Substitution. Journal of Physical Chemistry C, 2021, 125, 8105-8115.	3.1	6
123	Facile Synthesis of Near-Infrared Emissive CdS Quantum Dots for Live Cells Imaging. Journal of Nanoscience and Nanotechnology, 2018, 18, 2271-2277.	0.9	5
124	General Water-Induced Self-Exfoliation Strategy for the Ultrafast and Large-Scale Synthesis of Metal Hydroxide Nanosheets. Journal of Physical Chemistry Letters, 2019, 10, 6695-6700.	4.6	5
125	Effects of doping Fe cations on crystal structure and thermal expansion property of Yb2Mo3O12. Chinese Chemical Letters, 2017, 28, 1600-1606.	9.0	4
126	Synergy of Oxygen-Deficient LaFeO₃ and N-Doped Reduced Graphene Oxide in Oxygen Reduction Reaction in Alkaline Solutions. ACS Applied Energy Materials, 2021, 4, 8745-8754.	5.1	4

#	Article	IF	Citations
127	Unraveling the Roles of La Substitution for Different Transition Metals on P2-Na_{0.67}Mn_{0.6}Ni_{0.2}Co_{0.2}O₂ Cathode Materials. Journal of the Electrochemical Society, 2020, 167, 160506.	2.9	4
128	Achieving a High-Rate and Stable Li₄Ti₅O₁₂ Anode via a â€œThree-in-Oneâ€•Strategy. Journal of Physical Chemistry C, 2022, 126, 12283-12293.	3.1	4
129	Designing a durable high-rate K0.45Ni0.1Fe0.1Mn0.8O2 cathode for K-ion batteries: A joint study of theory and experiment. Science China Materials, 2022, 65, 1741-1750.	6.3	3
130	Influence of Y and Al co-doping on the crystal structure and magnetic properties of Nd2â^'xYxFe17â^'yAly. Intermetallics, 2014, 55, 199-203.	3.9	2
131	Tuning Bulk O2 and Nonbonding Oxygen State for Reversible Anionic Redox Chemistry in P2â€Łayered Cathodes. Angewandte Chemie, 0, , .	2.0	2
132	Structure and magnetic properties of Nd3â^'xDyxFe23â^'yCo6Moy (x=0.5â€“3) compounds. Solid State Sciences, 2008, 10, 1412-1415.	3.2	1
133	Photothermal Therapy: Multifunctional WS2 @Polyetherimide Nanoplatforms for Imaging Guided Gene-Photothermal Synergistic Therapy of Cancer (Adv. Healthcare Mater. 21/2016). Advanced Healthcare Materials, 2016, 5, 2834-2834.	7.6	1
134	Facile Synthesis and Enhanced Electrochemical Performances of Hierarchical ZnFe2O4-Graphene Hybrid as an Anode Material for Li-Ion Batteries. Journal of Nanoscience and Nanotechnology, 2017, 17, 2093-2097.	0.9	0